



HAZARDOUS STORMWATER®



WARNING

STORMWATER MAY
CONTAIN HIGH LEVELS
OF BACTERIA
AVOID SKIN CONTACT

BY ORDER OF SANTA CRUZ COUNTY ENVIROMENTAL HEALTH DEPARTMENT









Aesthetics – well-being Human Health TOLE AVER OF Energy Comfort/climate Conservati Water management/ Clean air flood prevention Clean water Biodiversity **Local Food** Benefits of Green Roofs

POTENTIAL LEED CREDITS

SS 5.1 Protect & restore Habitat-20% of total site area (1 pt)

SS 5.2 Maximize Open Space (1 pt)

SS 6.1 Stormwater Design- Quantity Control (1 pt)

SS 6.2 Stormwater Design- Quality Control (1 pt)

SS 7.2 Heat Island Effect- Roof (1 pt)



WE 1 Water efficient Landscaping (1-2pts)

EA PR 2: Minimum Energy Performance

EA 1 Optimize Energy Efficiency (1 pt)

MR 4 Recycled Content (1-2 pts)

MR 5 Regional Materials- (1-2 pts)

MR 6 Rapidly Renewable Materials (1 pt)

ID 1.1- 1.4 Innovation in Design (1 -4 pts)

Regional Priority (1-2 pts)

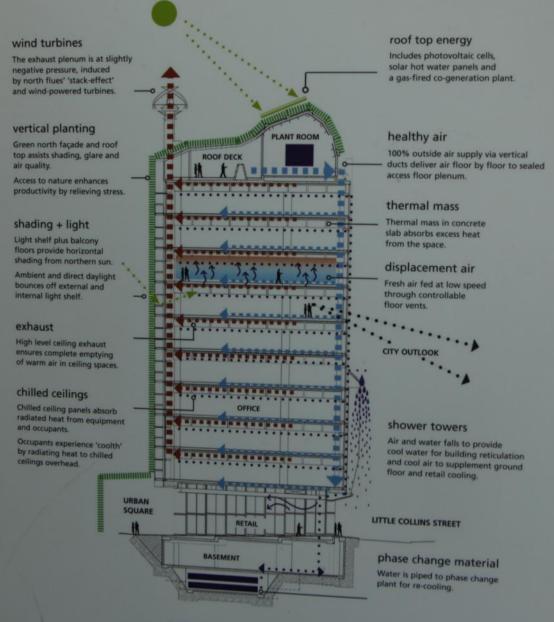
Green roof benefits

- -Thermal mass
- -Prolongs roof life
- -Cooler roof temps
- -SWM
- -Habitat
- -Air quality/micro-climate
- -Aesthetics
- -Life cycle costs









BIT CLIMATIC SECTION

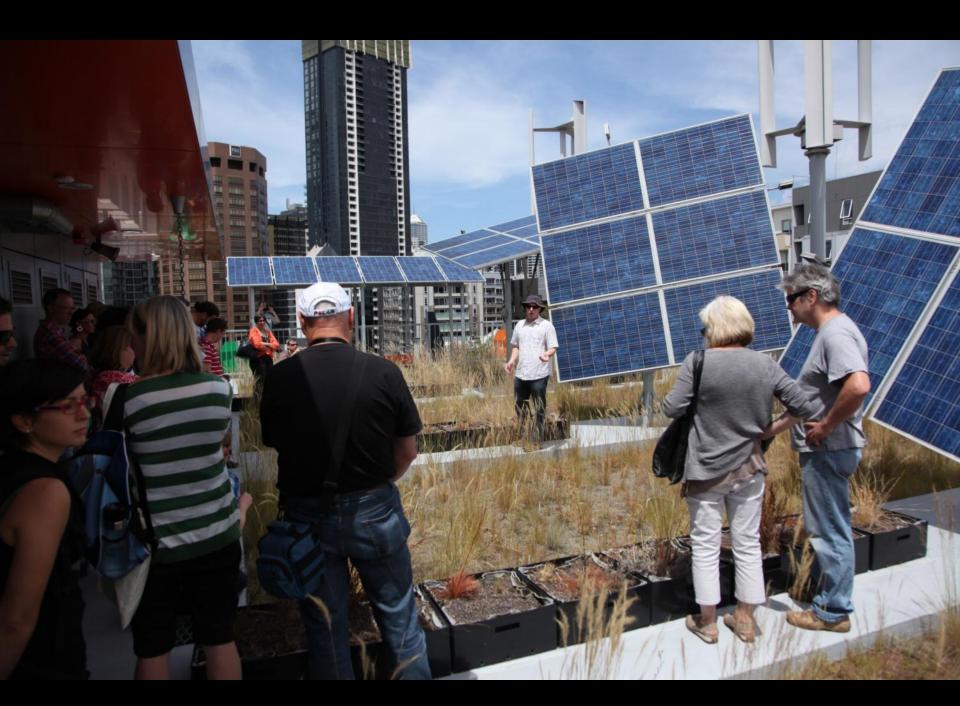














Garden or Machine



Triangel of the three ecological strategie types of plants

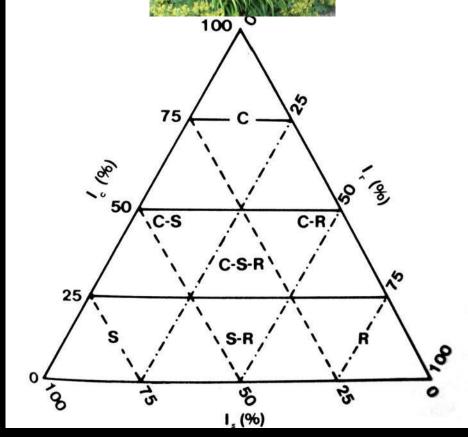
(Grime 1985)

Competitors (C)



Stress-tolerators (S)





Ruderals (R)
Pioniers
Disturbance tolerators

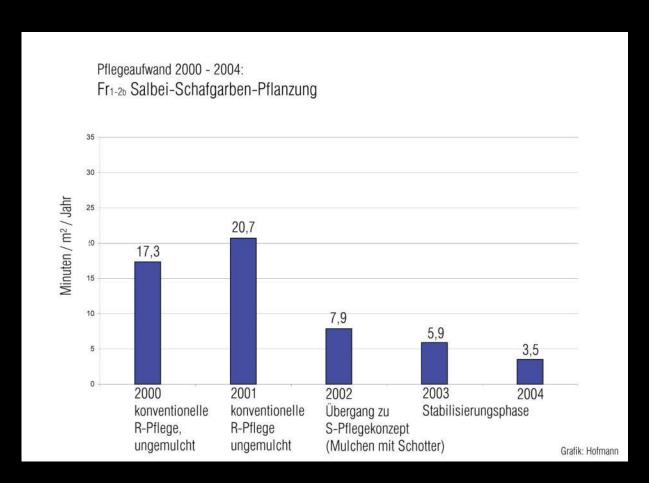


Maintenance systems for perennial plantings

3. S-maintenance system for stress tolerant planting types

Example:

Salvia-Achillea planting, dry open ground, well drained soil



Improvement of maintenance methods to support a stressful environment:

- -Use of machinery
- -Mineral mulching
- -No irrigation
- -No soil disturbance
- -No fertilizing

















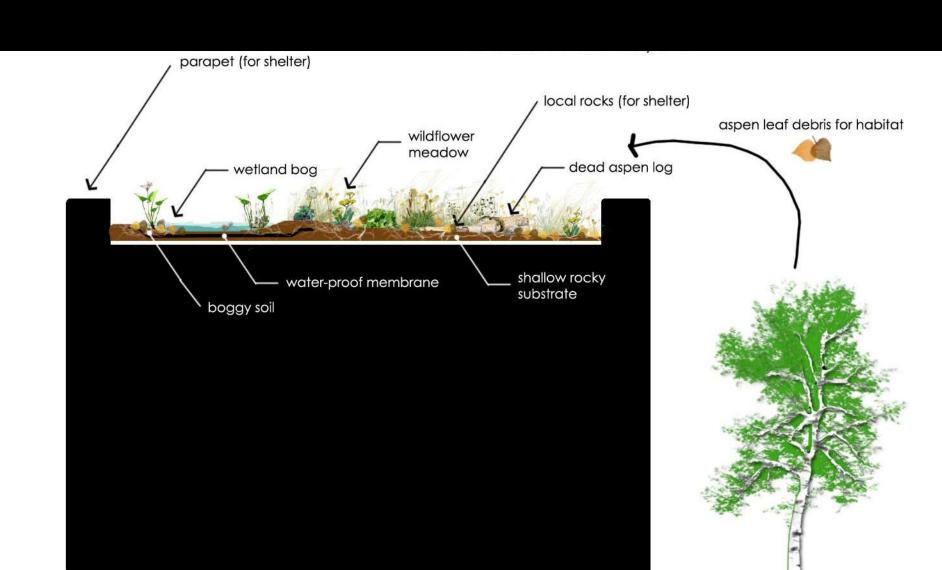




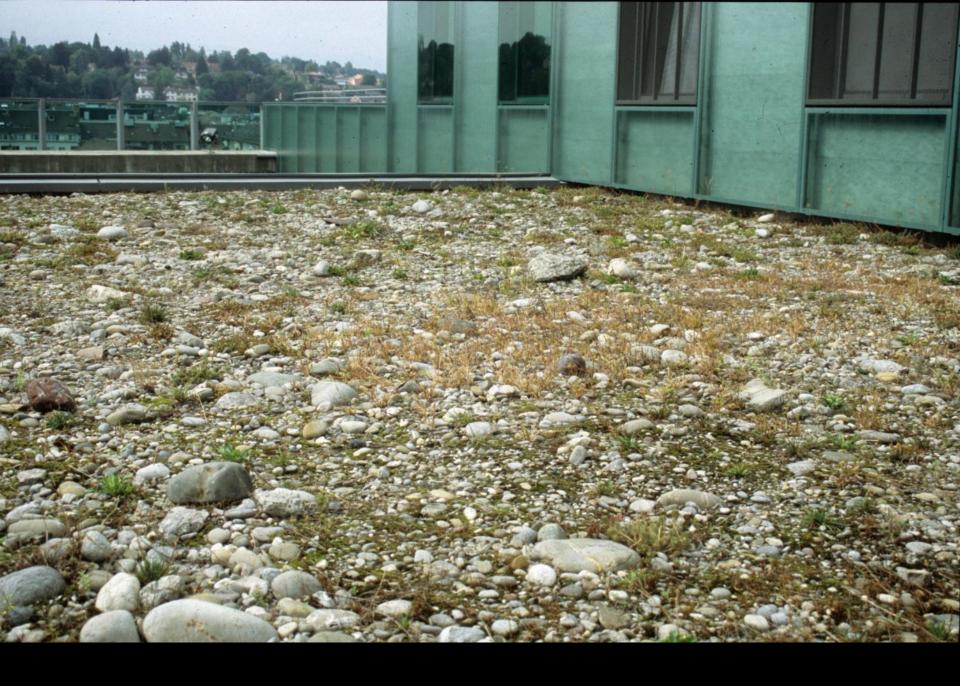


















































Gary Comer Youth Center









www.greenroofplants.com

ed.snodgrass@greenroofplants.com